

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

3rd November, 2017

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st October to 2nd November, 2017)

Observed fair to overcast sky and foggy during morning hours of 2 Nov and **7.2 mm** rainfall was recorded during past three days. Maximum temperature range of 18.7 to 26.5 $^{\circ}$ C and minimum temperature range of 13.7 to 15.4 $^{\circ}$ C with mean relative humidity 96.0 % max and 60.3 % min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 26-28 $^{\circ}$ C & minimum temp. 12-14 $^{\circ}$ C and relative humidity may reach up to 95 % (max RH) & 49 % (min RH). The average wind speed may be 4-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
			les with Cloropyriphos @ 2.5 ml per litre water against cut worm. g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Onion		Nursery raisin	ng	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
		Transcry raising	-5	preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
C: /m		Db:	D1::	measure against soil borne diseases before sowing.
Ginger/ Turn	ieric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Tormation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	200		management	son to improve son fertility.
		ng water to hi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		-	as and animas after rank	struss proper arrangements must be made it the sheds to heep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			 Shearing for wool 	Sheep should be sheared during this month.
Pig		ge groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	excep ones	ot the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	Ones		 Vaccination 	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
		ge groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	_	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m
			G 0.16	for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
			Mastitis	 Adopt tick control measures Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultivate	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:	ution. O	at Chinese cus	bage, Berseum may be grown	
Type of Farming	Stage N		Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			Tr' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.



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Weather forecast for next five days of Chandel (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 25-26 $^{\circ}$ C & minimum temp. 11-13 $^{\circ}$ C and relative humidity may reach up to 99 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/soybean/groundnut/blackgram/rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Lentil/Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
Farmers are advised to	drench the soil of nurse	ery bed of rabi vegetab	les with Cloropyriphos @ 2.5 ml per litre water against cut worm.
			g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.



ICAR Research Complex for N.E.H. Region

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Onion		Nursery raisii	19	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as	
Onion				preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds	
				- check that the new sprouts/ young plants in nursery beds are not damaged.	
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum	
		treatment and	1	soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is	
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @	
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive	
C: /m	•	Rhizome	Rhizome rot	measure against soil borne diseases before sowing.	
Ginger/ Turm	ieric	formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.	
		Tormation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.	
Animal Scienc	es		management	son to improve son retunity.	
		ig water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm	
as the tempera		-	y		
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories	
Poultry	All ag	ge groups	 Management 	Protect animals/ birds from sudden drop in temperature. Cover the wall with	
(Chicken//				hessian cloth/ polythene sheet during night time.	
Duck)				Litter must be stirred frequently and aired every day.	
Sheep/ Goat	All ag	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.	
				Lambs should be vaccinated against Enterotoxaemia.	
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.	
			Shearing for wool	Sheep should be sheared during this month.	
Pig		ge groups • Coccidial infection		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
	ones	t the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.	
	ones		 Vaccination 	Vaccinate against FMD.	
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used	
	_	ge groups	 Vaccination 	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.	
Cattle	_	ots the young		Cases of H.S. may be encountered during this period	
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.	
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m	
			Care & Management	for 100 kg body weight. • Mixture of mineral/ salts should be added in the feed.	
			• Care & Wallagement		
				Avoid the cattle from chiting/biting by Flies Adopt tick control measures	
			Mastitis	Adopt the control measures Adequate care must be ensured for prevention of mastitis for the milch animals.	
Fodder cultiva	ation: O	at/ Chinese cab	bage/ Berseum may be grown		
Fishery:			<u> </u>		
Type of Farming	Stage Ma		Management	Agro-metrological advisories	
Carp	Nurs	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.	
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by	
				mixing with water.	
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%	
			Tr. 1	crude protein fortified with vitamins and mineral.	
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare	
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.	
				Contract and 50 70 bottom recuer.	



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Weather forecast for next five days of Churachandpur (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 26-27 $^{\circ}$ C & minimum temp. 10-11 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 42 % (min RH). The average wind speed may be 4-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
			les with Cloropyriphos @ 2.5 ml per litre water against cut worm. g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is required.



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Onion		Nursery raisii	ng	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
				preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
D 4 4	TD 1 1			- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and	l l	soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
C! /m	•	Rhizome	Rhizome rot	measure against soil borne diseases before sowing.
Ginger/ Turm	ieric	formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		TOTHIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
		<u> </u>	management	soil to improve soil fertility.
Animal Scienc				
Provide clean	drinki	ng water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera	iture is	decreasing.		
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	 Management 	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	Alla	ge groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
8		ot the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
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G 44		ge groups	 Vaccination 	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle		ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			 Care & Management 	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: C	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:				T
Type of Farming	Stage		Management	Agro-metrological advisories
Carp		series/	Pond and water	Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$.
culture	grov	w-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.



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Weather forecast for next five days of Imphal East (4th to 8th November, 2017)

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Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
			les with Cloropyriphos @ 2.5 ml per litre water against cut worm. g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is required.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Onion		Nursery raisii	าฐ	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
Omon			.5	preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds - check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and	l l	soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es		•	
Provide clean	drinkir	ıg water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		0		
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All ag	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All ag	ge groups	 Vaccination 	• Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All ag	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		ot the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All ag	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			 Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m
			Deworming	for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
			Care & Management	Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	 Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultiva	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				read and 50% bottom reader.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

3rd November, 2017

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st October to 2nd November, 2017)

Observed fair to overcast sky and foggy during morning hours of 2 Nov and **7.2 mm** rainfall was recorded during past three days. Maximum temperature range of 18.7 to 26.5 °C and minimum temperature range of 13.7 to 15.4 °C with mean relative humidity 96.0 % max and 60.3 % min was recorded in the past three days.

Weather forecast for next five days of Imphal West $(4^{th}$ to 8^{th} November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 24 - 25 $^{\rm o}$ C & minimum temp. 14 - 15 $^{\rm o}$ C and relative humidity may reach up to 100 % (max RH) & 64 % (min RH). The average wind speed may be 4-5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Harvest when 80 % of the spikelet turned yellow.
Rice	Harvesting to post		- Harvested panicles may be stacked for 5-7 days and turned regularly for better
	harvesting		threshing.
			- After proper threshing, grains must be sundried well before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing
			when the field is slightly in muddy condition.
Rapeseed/ Mustard	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
rapeseew master a	and sowing		- Recommended variety – M-27. Seed rate is 10-12 kg/ ha.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and downey mildew at seedling stage.
	Seed collection		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/
Field Pea	and sowing		rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended
			variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram	Seed collection		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice in the crop
(late variety)	and sowing		field of which the soil moisture is optimum for seed germination. Treat the seeds
(late variety)	and so wing		with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
			For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
			eles with Cloropyriphos @ 2.5 ml per litre water against cut worm.
For the control of damp			g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
~	seedlings)		transplanting.
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings)		transplanting for main season crops.
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm
			apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is
	1		required.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Onion		Nursery raisii	าฐ	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
Omon			.5	preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds - check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and	l l	soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es		•	
Provide clean	drinkir	ıg water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		0		
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All ag	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All ag	ge groups	 Vaccination 	• Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All ag	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		ot the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All ag	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			 Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m
			Deworming	for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
			Care & Management	Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	 Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultiva	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				read and 50% bottom reader.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

3rd November, 2017

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st October to 2nd November, 2017)

Observed fair to overcast sky and foggy during morning hours of 2 Nov and **7.2 mm** rainfall was recorded during past three days. Maximum temperature range of 18.7 to 26.5 $^{\circ}$ C and minimum temperature range of 13.7 to 15.4 $^{\circ}$ C with mean relative humidity 96.0 % max and 60.3 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 24-25 $^{\circ}$ C & minimum temp. 10-11 $^{\circ}$ C and relative humidity may reach up to 99 % (max RH) & 48 % (min RH). The average wind speed may be 4-5 km/hr.

Field Crops	<u> </u>		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
			les with Cloropyriphos @ 2.5 ml per litre water against cut worm. g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Onion		Nursery raisir	ng	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
Ollion		Truisery raisii	15	preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
Ginger/ Turm	eric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Tormation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Science	205	<u> </u>	management	son to improve son fertility.
		ng water to bi	rds and animals after rain:	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		-	as and anomas agree rans.	strust proper arrangements must be made in the sheat to heep them was ne
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones	ot the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	_	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
			G 0.14	for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
			Mastitis	 Adopt tick control measures Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultivation	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:			<u>, , , , , , , , , , , , , , , , , , , </u>	
Type of Farming	Stage		Management	Agro-metrological advisories
Carp culture		series/ w-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

3rd November, 2017

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st October to 2nd November, 2017)

Observed fair to overcast sky and foggy during morning hours of 2 Nov and **7.2 mm** rainfall was recorded during past three days. Maximum temperature range of 18.7 to 26.5 $^{\circ}$ C and minimum temperature range of 13.7 to 15.4 $^{\circ}$ C with mean relative humidity 96.0 % max and 60.3 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. $24\text{-}25~^{\circ}$ C & minimum temp. $10\text{-}11^{\circ}$ C and relative humidity may reach up to 92 % (max RH) & 41 % (min RH). The average wind speed may be 4-5 km/hr.

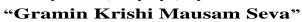
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
			les with Cloropyriphos @ 2.5 ml per litre water against cut worm. g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is required.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004







Omian		Murgary raisis	200	Apply Center 50 WD @ 2g/litro of water during final land properties as
Onion		Nursery raisii	ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
Potato		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
		sowing		2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
Ginger/ Turn	ieric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
_		formation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	ces		•	
Provide clean	drinkir	ng water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		-	v	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All ag	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All ag	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All ag	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O2) tab twice daily for 5 days.
	_	ot the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All ag	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be
				advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
				for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:			1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nurs	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
		J	Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

3rd November, 2017

Thoubal

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st October to 2nd November, 2017)

Observed fair to overcast sky and foggy during morning hours of 2 Nov and **7.2 mm** rainfall was recorded during past three days. Maximum temperature range of 18.7 to 26.5 $^{\circ}$ C and minimum temperature range of 13.7 to 15.4 $^{\circ}$ C with mean relative humidity 96.0 % max and 60.3 % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 26-28 $^{\circ}$ C & minimum temp. 12-14 $^{\circ}$ C and relative humidity may reach up to 96 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
			les with Cloropyriphos @ 2.5 ml per litre water against cut worm. g Carbendazim per kg seed.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Onion		Nursery raisii	19	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
Onion		Nursery raising		preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and	1	soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
C: /m	•	Rhizome	Rhizome rot	measure against soil borne diseases before sowing.
Ginger/ Turm	ieric	formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Tormation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es		management	son to improve son retunity.
		ig water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		-	y	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All ag	ge groups	 Management 	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All ag	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones	t the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		 Vaccination 	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	_	ge groups	 Vaccination 	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	_	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m
			Care & Management	for 100 kg body weight. • Mixture of mineral/ salts should be added in the feed.
			• Care & Wallagement	
				Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	Adopt the control measures Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultiva	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nurs	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			E' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
				Control and 50% bottom rectal.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

3rd November, 2017

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st October to 2nd November, 2017)

Observed fair to overcast sky and foggy during morning hours of 2 Nov and **7.2 mm** rainfall was recorded during past three days. Maximum temperature range of 18.7 to 26.5 $^{\circ}$ C and minimum temperature range of 13.7 to 15.4 $^{\circ}$ C with mean relative humidity 96.0 % max and 60.3 % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (4th to 8th November, 2017)

Likely to have no rains upto Wednesday then no rains thereafter with shallow to moderate foggy morning hour and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 25 - 27 $^{\circ}$ C & minimum temp. 10-11 $^{\circ}$ C and relative humidity may reach up to 99 % (max RH) & 53 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops					
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Rice	Harvesting to post harvesting		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used. 		
Rapeseed/ Mustard	Seed collection and sowing		 After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage. 		
Field Pea	Seed collection and sowing		Land preparation may be done after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.		
Lentil/Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice in the crop field of which the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.		
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.		
Horticulture Crops	•				
For the control of damp	Farmers are advised to drench the soil of nursery bed of rabi vegetables with Cloropyriphos @ 2.5 ml per litre water against cut worm. For the control of damping off disease, mix soil thoroughly with 2-3g Carbendazim per kg seed.				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.		
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.		
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².		
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.		



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





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Onion		Nursery raising		preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and	1	soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
C: /m	•	Rhizome	Rhizome rot	measure against soil borne diseases before sowing.
Ginger/ Turm	ieric	formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Tormation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es		management	son to improve son retunity.
		ig water to bi	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
as the tempera		-	y	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All ag	ge groups	 Management 	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
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Sheep/ Goat	All ag	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.
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			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
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			Care & Management	for 100 kg body weight. • Mixture of mineral/ salts should be added in the feed.
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Fodder cultiva	ation: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nurs	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
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			E' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
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				Control and 50% bottom rectal.